	Driller's Log 3-16-62 Electric Logs (No. )	Checked by Chief Copy.NID to Field Office Approval Letter Disapproval Letter  Location Inspected Bond released State of Fee Land  GS FILED  GR. GR.N. Micro.	
5-9-62, 20 0 water	this date this certion well = &	tarted injecting	weaf April, 4962

## Form 9-331 b (April 1952)



# (SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-R359.4. Approval expires 12-31-60.

Window Rock

#### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Allettee Tribal Lease No. 14-20-0609-6509

#### SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.		SUBSEQUENT REPORT OF ALTERING CASING.	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.		SUBSEQUENT REPORT OF ABANDONMENT.	
NOTICE OF INTENTION TO PULL OR ALTER CASING.		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

" "		400000000000000000000000000000000000000	December	1 , 1961
Well No. 2-Navajo is located	820 ft.		and 820 ft. from	$\left\{\begin{array}{c} \mathbb{F} \\ \mathbb{W} \end{array}\right\}$ line of sec. $2$
SB NW NW	41 S.	24 B.	S.L.M.	
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Anoth Mc Elmo Greek	San J	uan		Utah
(Field)	(Cou	inty or Subdivision)	(	State or Territory)

The elevation of the derrick floor above sea level is 4668.2t.

#### **DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Operator proposes to rotary drill a 172 hole to approximately 100', set 133/8"48# conductor pipe, cementing with approximately 125 sacks of coment; drill an 11" hele to approximatley 1400' and set 85/8", 24# surface pipe, comenting with approximately 850 sacks of cement, allow 24 hours for cement to set and test for water shutoff; re-commence drilling a 77/8" hole to approximately 5700', or through all the possible Desert Creek producing zones and if commercial production is indicated by log analysis, set 51". J-55, 15.5# casing at total depth, cementing with approximately 125 sacks of of cement + 2% gel, and attempt completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced. Company Wilshire Oil Company of Texas 300 Fillmore Street Address Denver, Colo.

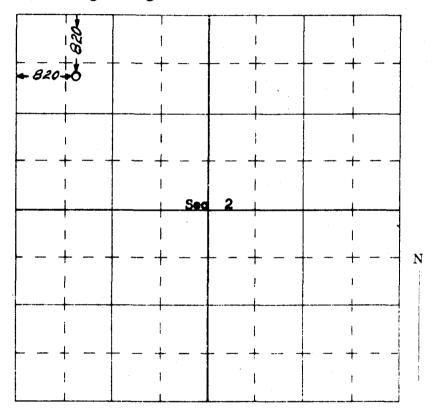




COMPANY	Y WILSHIRE OIL COMPANY OF TEXAS	
Well Name	e & No. Lease No.	
Location	820 FROM THE WEST LINE & 820 FROM THE NORTH LINE	
Being in	se nw nw	

Sec. 2, T41 S. R. 24 E. S.L.M., San Juan County, Utah

Ground Elevation 4468.2 ungraded ground



Scale — 4 inches equals 1 mile

Surveyed 19 July

19 61

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Registered Land Surveyor.

James P. Leese

Utah Reg. No. 1472

Farmington, N. M. 2802 East 20th December 4, 1961

Utah Oil and Gas Conservation Commission 310 Newhouse Building 10 Exchange Place Salt Lake City, Utah

#### Gentlemen:

We are enclosing herewith two copies, with Survey plats attached, of Intention to Drill forms on

Well No. 2-Navajo "C" - Sec. 2-41S-24E
San Juan County, Utah.

Very truly yours,

Don H. Ford, Agent for Wilshire Oil Company

of Texas

zp enc1

#### December 5, 1961

Wilshire Oil Company of Texas 300 Fillmore Street Denver, Colorado

Attn: Don H. Ford, Agent

#### Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. 2-Navajo "C", which is to be located 820 feet from the north line and 820 feet from the west line of Section 2, Township 41 South, Range 24 East, SLEM, San Juan County, Utah.

Please be advised that insofer as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Please have the enclosed 'Minimum Safety Requirements' notice posted in a conspicuous place on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT, EXECUTIVE DIRECTOR

CBF: awg Enclosure

cc: P. T. McGrath, Dist. Eng.

U. S. Geological Survey

H. L. Coonts - OGCC, Moab

Budget Bureau No. 49-R714.4. Approval expires 12-81-60.

#### UNITED STATES **DEPARTMENT OF THE INTERIOR** GEOLOGICAL SURVEY

ALLOTTEE
THE NAVAJO
LEME No. 14-20-0603-6509

# LESSEE'S MONTHLY REPORT OF OPERATIONS

Agent's	add	reas	300 De	Fill nyer	more Stree	t o	, 19. <u>Q1</u> , Co	mpany W	lishire C	drilling and producing
Phone.			3	5-162	]		04 41	ent's title	Product	ion Superintendent
Sinc. and H of H	Twr.	RANGE	Wall No.	DAYS PROSSORE	BARRIE OF OIL	GRAVITY	Cv. Fr. or Gas (In thousands)	GALLONS OF GASOLDIR BROOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, libpth; if shot down, common date and reach of test for gendline contents of gend
rse nw S	418	24E	1-0	25	2452	43	6,495	None	None	
S NM NM	<b>41</b> S	24E	2 <b>-</b> C							Drilling at 4885'
							605	Produ		

Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 A (December 1968)

16---26231-6



300 FILLMORE STREET

DENVER 6, COLORADO

January 12, 1962

Utah Oil and Gas Conservation Commission 310 Newhouse Building Salt Lake City 14, Utah

Gentlemen:

Re: Wilshire Oil Company of Texas
Navajo "C" #2 Well
McElmo Creek Field
San Juan County, Utah

Enclosed please find one copy each of Induction-Electrical Log and Gamma Ray-Neutron Log for the subject well.

Very truly yours,

WILSHIRE OIL COMPANY OF TEXAS

H. W. Kugler Geological Engineer

HWK:jd

Encls.

Bu herr	Bureau No.	12	1
Arneas	Lucesines 15	21	

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

ALLOTTEE	;
Truse Navajo	
LEASE NO. 14-20-0603-6509	

## LESSEE'S MONTHLY REPORT OF OPERATIONS

			Den	ver 6.	Colorado		Sió	ned /	K O.	il Otmpany of Texas
Phone .			355	-1621			Age	ent's title	Production	on Superintendent
SEC. AND M OF M	Twr.	RANGE	Well No.	Pays Produced	BARRES OF CIL	GRAVITY	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARPELS OF WATER (If none, so state)	(If drilling, depth; if shut down, cause; date and result of test for gaseline content of gas
5 NM	41S	24E	1-C	31	2791	43	2749.9		None	Pumping
2 1 NW	41S	24E	2-C		Cas	ing w		0-62 witi	n plug be	o T.D. 5558 ck T.D. 5508 reek Unit

No runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

1

# THE SUPERIOR OIL COMPANY

CORTEZ. COLORADO February 19, 1962

State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Attention: Mr. R. L. Schmidt

Dear Mr. Schmidt:

Effective February 1, 1962, the Wilshire Oil Company well #C-2 located in the west 1/2 of the NW 1/4 of section 2, T41S, R2#E, San Juan County, Utah was included in the McElmo Creek Unit participating area. This well was completed January 10, 1962.

As a result of this enlargment, the McElmo Creek Unit will have 161 developed 80 acre drilling units during the month of February.

Yours truly,

D. D. Kingman

DDK/njh

#### UMETED STATES DESIGNATION OF THE INTERIOR SHOLDSHOM, SURVEY

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TOTAL NOVE	0
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## LESSEET MONTHLY REPORT OF OPERATIONS

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Phone.	•		355	-1651			A1	ent's title	Product	ion Superintende	nt.
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NW 2	418	24B	1C	28	3209	43	3226.7	None	None	Pumping	
5 MM	418	24E	2-C		This well February	. went 1, 19	into the 62	McE <b>lmo</b> C	reek Unit	effective	
			-								
		Commence in the state of the st							b		
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							-				

NO

Tuns or sales of gasoline during the month. (Write "no" where applicable.)

Nors.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.





# (SUBMIT IN DUPLICATE)



#### LAND:

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# STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented
State
Lease No
Public Domain
Lease No
Indian Navajo

#### SUNDRY NOTICES AND REPORTS ON WELLS

			61
Notice of Intention to Drill		Subsequent Report of Wat	
Notice of Intention to Change		Subsequent Report of Alte	
Notice of Intention to Redrill		rilling or Repair	
Notice of Intention to Pull or		Supplementary Well Histo	
Notice of Intention to Abando	n Well		
(1	NDICATE ABOVE BY CHECK MARK NAT	URE OF REPORT, NOTICE, OR OTHER DATA)	
-m •		March 12	, 1962
Navajo	000	J)	(家)
Well No. 2 - C is lo	cated 820 ft. from	line and 820 ft. from	$\{W\}$ line of Sec2
SE NW NW	41s	24E	SLM
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)
Aneth	San Juan		Utah (San and Tarakara)
(Field)	(County	or Subdivision)	(State or Territory)
jobs, cementing points, and all of Spudded December 12, 1 an 91 ft. of 13 3/8" C	ther important work, surface  961  asing Set @ 102* K.B	sizes, weights, and lengths of proformation, and date anticipate space.  Cemented with 100 sx.  1400 K.B. Cemented v	udding-in.)
Ran 1388.38 of 8 5/8" Got water shut off. Drilled to T.D. 5568 Ran 5551.44 ft. 5 1/2" Plug Down January 9, 19	14# J-55 Casing Set		
Ran 1388.38 of 8 5/8" Got water shut off. Drilled to T.D. 5568 Ran 5551.44 ft. 5 1/2"	14# J-55 Casing Set 62 eted as an injection	@ 5541 K.B. Cemented v	rith 275 sx.
Ran 1388.38 of 8 5/8" Got water shut off. Drilled to T.D. 5568 Ran 5551.44 ft. 5 1/2" Plug Down January 9, 19 This well will be complopestor of the McElmo C	14# J-55 Casing Set 62 eted as an injection reek Unit.	@ 5541 K.B. Cemented v	with 275 sx. the Superior Oil Co.,
Ran 1388.38 of 8 5/8" Got water shut off. Drilled to T.D. 5568 Ran 5551.44 ft. 5 1/2" Plug Down January 9, 19 This well will be comploperator of the McElmo C	14# J-55 Casing Set 62 eted as an injection reek Unit.	@ 5541 K.B. Cemented was well or a producer by	oith 275 sx. the Superior Oil Co.,
Ran 1388.38° of 8 5/8"  Got water shut off.  Drilled to T.D. 5568°  Ran 5551.44 ft. 5 1/2"  Plug Down January 9, 19  This well will be comploperator of the McElmo C	14# J-55 Casing Set 62 eted as an injection reek Unit.  ork must receive approval in Company of Texas	@ 5541 K.B. Cemented was well or a producer by	with 275 sx. the Superior Oil Co.,
Ran 1388.38 of 8 5/8" Got water shut off. Drilled to T.D. 5568 Ran 5551.44 ft. 5 1/2" Plug Down January 9, 19 This well will be comploperator of the McElmo Company Wilshire Oil Address 300 Fillmore	14# J-55 Casing Set 62 eted as an injection reek Unit.  ork must receive approval in Company of Texas	@ 5541 K.B. Cemented was well or a producer by	the Superior Oil Co.

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



300 FILLMORE STREET

DENVER 6, COLORADO

March 13, 1962

State of Utah Oil & Gas Conservation Commission 310 Newhouse Building Salt Lake City 11, Utah

Gentlemen:

Enclosed are Sundry Notices regarding the completions of Navajo Well 2-C and Navajo Well 2-B.

Very truly yours,

WILSHIRE OIL COMPANY OF TEXAS

K. O. Austin

Production Superintendent

KOA:bb

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U. S. LAND OFFICE \_\_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

14-20-0603-6509

#### **UNITED STATES**

#### DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

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	HISTORY OF OIL OR GAS WELL 16-43094-2 U. S. GOVERNMENT PRINTING OFFI	CE
vell was spudded De	to have a complete history of the well. Please state in detail the dates of redrilling, toge its results. If there were any changes made in the casing, state fully, and if any casing ve its size and location. If the well has been dynamited, give date, size, position, and num ut in to test for water, state kind of material used, position, and results of pumping or bail cember 13, 1961. Drilled to 95 feet. 30t 13-3/8.	
o shut off all wat n January 31, 1962	Drilled to 1365 feet, set 8-5/8" surface casing er zones. Drilled to 5569 feet, set 5-1/2" at 59. This well was turned over to the McRimo Creek jection well for water flood.	
or of group or recorded and a contract	to be be the second of the sec	
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C. S. Leup Graioz

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#### (SUBMIT IN TRIPLICATE)

UNITED STATES									
DEPARTMENT C	F THE	INTERIOR							
GEOLOGICAL SURVEY									

Budget E				),4
Approval	expire	s 12-	-31-60.	

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Lease No. 14-20-0603-6509

#### SUNDRY NOTICES AND REPORTS ON WELLS

	-	
NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING.		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		
		IRE OF REPORT, NOTICE, OR OTHER DATA)

								March	14.	,	19	<u>62</u>
Well	No.	Navajo 2 C	is located	820	ft. from	N St line	and 820	ft. from	$\left\{ egin{array}{c} E^{\bullet} \\ W \end{array}  ight\}$ line of	F sec	2	
SE	NW	Nu		41 S	:	24E	3	LM				
		Sec. and Sec. No.)		(Twp.)	•	ange)	(1	Meridian)				
	A	noth			San	Juan			Utah			
		(Field)			(County or Su	ıbdivision)		(8	tate or Territory	)		

The elevation of the derrick floor above sea level is 4478 ft.

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well was spudded December 13, 1961, drilled to 95 feet, set 13-3/8" conductor casing. Drilled to 1385 feet, set 8-5/8" surface casing to shut off all water sones. Drilled to 5569 feet, set 5-1/2" at 5568 feet on January 31, 1962. This well was turned over to the McElmo Creek Unit to be used as an injection well for water flood.

Company	Wilshire Oil Co. of Texa	
	300 Filmore Street	- 1
·	Denver, Colorado	By Don H. Ford 2
		Title Agent

Arthur white

#### THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ. COLORADO March 15, 1962

State of Utah Utah Oil & Gas Conservation Commission 310 Newhouse Building Salt Lake City, Utah

Attention: Mr. R. L. Schmidt

Dear Bob,

This is to confirm that an agreement was made between Wilshire Oil Company and the McElmo Creek Unit working interest swners concerning the Wilshire #3-2 and #C-2 wells. It was agreed in an operators meeting December 5, 1961 that the tracts on which these two wells are presently located would be allowed to participate in the unit after a well had been drilled and easing set to a depth prescribed by the Unit operator.

This agreement was made because the operator had very little chance of making commercial wells at these locations, but the location of these wells made them very desirable as injection wells.

AFR's are now circulating to other operators and these wells will be completed in the near future.

Yours truly,

D. D. Kimeman

DOK/njh



300 FILLMORE STREET
DENVER 6. COLORADO

March 22, 1962

The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Attention: Miss Karen Bergman

Re: Wells No. Navajo 2-B and 2-C,

San Juan County, Utah

Dear Miss Bergman:

In reply to your request of March 19, please find listed below the requested formation tops:

	Navajo 2-B	Navajo 2-C
Hermosa	4409 ( 79)	4409 ( 68)
Ismay	5207 (- 719)	5208 (-731)
Paradox Shale	5364 (-876)	5355 (-878)
Desert Creek	5374 (-886)	5365 (=888)
T.D.	5561 (-1073)	5568 (-1091)
2.2.	,	

We are very sorry to have caused you additional work.

Very truly yours,

WILSHIRE OIL COMPANY OF TEXAS

Kenneth O. Austin

**Production Superintendent** 

KOA:jd

# Form 9-331 b (April 1952)

X		

BGA/nh

#### (SUBMIT IN TRIPLICATE)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	Approva	Bureau No. 42-R359.4. Il expires 12-31-60.
Indian	Agency	

Indian Agency
Window Rock
Allottee Navajo
Lease No. 14-20-603-6509

I understand that this plan of we Company THE SUFEI  Address P. O. DRA	ork must receive approva RIOR OIL COMPAI AWER "G"  COLORADO		Original Signe D. D. KINGM	d By
I understand that this plan of we Company THE SUFE	RIOR OIL COMPA		Original Signe	d By
I understand that this plan of we Company THE SUPER			ological Survey before operat	ions may be commenced.
Flu I understand that this plan of wo			ological Survey before operat	ions may be commenced,
Sue Flu				
Serie				
Serie				
	abbed 2 hrs., i		swabbed to 4000	'. Rec. 60 bbl.
Flu		1th 32 bbl.		ax pressure 4400
			15% acid. Broke with 9 bbl. aci	
			9'-5502' with 4 j cement lined tubi	
(State names of and expected depths				
(State names of and avacated death		CAILS OF WOR		icate mudding iche coment-
The elevation <b>SPEKE STATE</b>	A Bove sea	level is 4480	ft. K.B.	
Greater Aneth (Field)		n Juan inty or Subdivision)	(State	or Territory)
(% Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
NW NW Section 2	418	24E	SLB6M	
Well No. B-13 is l	ocated 820 ft.	from  N  line ar	$\operatorname{ad}$ <b>820</b> ft. from $\left\{ egin{array}{c} \mathbb{Z} \end{array} \right.$	line of sec2
McElmo Creek		(A. 1)		
			May 15	⊋č , 19 <u>62</u>
(indic	CATE ABOVE BY CHECK MA		T, NOTICE, OR OTHER DATA)	
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NOTICE OF INTENTION TO PULL OF	R ALTER CASING		ARY WELL HISTORY.	
			REPORT OF ABANDONMENT.	1 1
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NOTICE OF INTENTION TO REDRIL		}	REPORT OF SHOOTING OR A	
1		SUBSEQUENT		F

U. S. GOVERNMENT PRINTING OFFICE 16-8437b-8

Form 9-331 (May 1963)	STATES DEPARTMENT OF THE INTE	SUBMIT IN THE CONTROL OF THE CONTROL	Form approved. Budget Bureau No. 42-R1424.  5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY	<del></del>	14-20-0603-6509
CHNIDE			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this form	RY NOTICES AND REPORTS  m for proposals to drill or to deepen or niv	ON WELLS	
Us	m for proposals to drill or to deepen or pluse "APPLICATION FOR PERMIT—" for suc	h proposals.)	Navajo
1. GAS G			7. UNIT AGREEMENT NAME
WELL WELL	OTHER Water Injection		
2. NAME OF OPERATOR		1111	8. FARM OR LEASE NAME
THE SUPERIOR O	IL COMPANY	Wilshire	McElmo Creek
			9. WELL NO.
P. O. DRAWER 1	G' CORTEZ COLORADO rt location clearly and in accordance with a	any State requirements	#B-13 10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	TO TO THE GOOD OF STREET O	ing State requirements.	
	0		McElmo Creek 11. smc., T., B., M., OR BLK. AND
NW NW Section			SURVEY OR ARMA
San Juan Count	y, Utah		NW NW Sec. 2, T41S, R2
14. PERMIT NO.	15. ELEVATIONS (Show whether	r DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	4478'	КВ	San Juan Utah
16.			
	Check Appropriate Box To Indicate	Nature of Notice, Report, or C	Other Data
NOTI	CE OF INTENTION TO:	SUBSUQ	UENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OXXXXXXXXXX	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)	MPLETED OPERATIONS (Clearly state all perti	Completion or Recompl	of multiple completion on Well letion Report and Log form.)
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	Pressure 375/200 5212 bbls in 24 hrs.		conditation strainment of production and the second strainment of the s
18. I hereby certify that the	Pressure 375/200  5212 bbls in 24 hrs.  foregoing is true and correct  **Mingman**  Kingman**  TITLE	Pressure 625/200.	The financial political profit and the second control of the secon
18. I hereby certify that the SIGNED D. D. J.	Pressure 375/200  5212 bbls in 24 hrs.  foregoing is true and correct  **Mingman**  Kingman**  TITLE	Pressure 625/200.	The financial political profit and the second control of the secon

	DEDADT	UN STATES MENT OF THE INTER	SUBMIT IN TRIPL (Other instructions	Form approved. Budget Bureau No. 42-R1424
			(IOR verse side)	5. LEASE DESIGNATION AND SERIAL NO.
		GEOLOGICAL SURVEY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SI	JNDRY NOT	ICES AND REPORTS	ON WELLS	
Do not use	this form for propo Use "APPLIC	sals to drill or to deepen or plug ATION FOR PERMIT—" for such p	back to a different reservoir. proposals.)	Navajo
		·		7. UNIT AGREEMENT NAME
WELL GAS WEI	LL OTHER	Water Injection		McElmo Creek
NAME OF OPERATO	R		1.3 (	8. FARM OR LEASE NAME
	ior Oil Com	pany	10) Walazio	
. ADDRESS OF OPERA				9. WELL NO. #B=13
P. O. Dra	wer 'G', Co	rtez, Colorado		
See also space 17 At surface	below.)	hearly and in accordance with any	y State requirements.	10. FIELD AND POOL, OR WILDCAT
	)' FNL, 820'	FWL	•	McElmo Creek Unit 11. sec., t., E., M., OR BLE. AND
	NW Sec. 2,			SURVEY OR AREA
	Juan Count		•	Sec. 2, T41S, R24E
4. PERMIT NO.	· · · · · · · · · · · · · · · · · · ·	15. ELEVATIONS (Show whether D	F, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
		4478' KB		San Juan Utah
6.	CL. I A		NI, CNIS D	Other Deter
			Nature of Notice, Report, or	
	NOTICE OF INTEN	TION TO:	SUBSI	EQUENT REPORT OF:
TEST WATER SHU	T-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	<u>  </u>	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	E X	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL		CHANGE PLANS	(Other)	
(Other)	•		(Note: Report resu Completion or Recor	Its of multiple completion on Well npletion Report and Log form.)
proposed work. nent to this wor	If well is direction	onally drilled, give subsurface loca	ations and measured and true vert	es, including estimated date of starting any tical depths for all markers and zones perti-
Will sque foot 5368 5471, 548	eze off all 8-83', and w	existing perforat io ill perforate with 1 07, 5517, 5529. Per	ons. Will reperforat jet at the following forations 5461-5529	te with 2 jets per ng locations: 5461, will be treated with
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TITLE

# DEPARTMENT OF THE INTERIOR (Other instructions verse side)

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

$\perp$		SEOLOGICAL SURVEY		14-20-0603-6509
4		CES AND REPORTS ON als to drill or to deepen or plug back TION FOR PERMIT—" for such propor		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
1.	OIL GAS OTHER	Water Injection		7. UNIT AGREEMENT NAME  McElmo Creek
2.	NAME OF OPERATOR	-		8. FARM OR LEASE NAME
3.	The Superior Oil Co	)		9. WELL NO.
	P O Drawer IIGH	Cortez Colorado		B-13
4.	See also space 17 below.)	Cortez Colorado early and in accordance with any State	te requirements.*	10. FIELD AND POOL, OR WILDCAT
	At surface 820 FNL 820		•	McElmo Creek Unit
	NW NW Sec 2	•		SURVEY OR AREA
	San Juan Coi	unty, Utah		Sec 2 T41S R24E
14.	. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT,	GR, etc.)	12. COUNTY OR PARISH 13. STATE
		4478'KB	•	San Juan Utah
16.	Check Ap	propriate Box To Indicate Natu	re of Notice, Report, or	Other Data
	NOTICE OF INTEN	TION TO:	SUBSI	EQUENT REPORT OF:
		PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL ALTERING CASING
		AULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING	X ABANDONMENT*
		CHANGE PLANS	(Other) Reportorat	te & Acidize
	(Other)		(Norm: Report resu	lts of multiple completion on Well npletion Report and Log form.)
17.	DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directionent to this work.) *	RATIONS (Clearly state all pertinent de nally drilled, give subsurface locations	etails, and give pertinent dat s and measured and true ver	es, including estimated date of starting any tical depths for all markers and zones perti-
			•	
	PBTD 5541'			
	Squeezed off all p			그는 길이 첫쪽설까지 음이 동일살다. 박다
	Drill cement to 55			그 이렇게 돌려왔었다. 뭐 그렇게하다.
	Perforated w/2 jet	s per ft. 5368-83'-15'	-1/1 mlm1 =10	

Perforated w/l jet following at locations 5461, 5471, 5485, 5498, 5507, 5517, 5529'. Treated perfs 5461-5529' w/500 gal 28% acid & 5000 gal 15% acid
Treated perfs 5368-83 w/5000 gal 28% acid.
Set packer at 5315 on 2-7/8" cement lined Hydril tubing, returned well to injection

		도 싫어 면 참 일 ( <u>), (11. 1.</u> ) 휴 년 번 <u></u>
18. I hereby certify that the foregoing is true and correct		
SIGNED D. D. Kingman	TITLE Production Engineer	DATE1/11/66
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

## **Mobil Oil Corporation**

P.O. BOX 5444 DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Attn: R. J. Firth

Associate Director



DIVISION OF OIL, GAS & MINING

#### SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with <u>Mobil Exploration and Producing North America Inc. (MEPNA)</u>, which is also a wholly cwned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

CNE/rd CNE8661

R. D. Baker Environmental Regulatory Manager Ln Lion Wells

Only

HESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)

FOR THE CORTEZ SUPERVISOR AREA

FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME COUNTY STATE SEC TWISHP RNG TYPE T API NUMBER LEASE  GOTHIC MESA 9-24 SAN JUAN UT SE SW 9-413-23E INJ SI 43-037-16452 14-20-  9-44 SAN JUAN UT SE SW 9-413-23E INJ SI 43-037-16451 14-20-  16-24 SAN JUAN UT SE SW 16-413-23E INJ SI 43-037-16454 14-20-  16-44 SAN JUAN UT SE SE 16-413-23E INJ SI 43-037-16453 14-20-  MC ELMO CREEK A17-1 SAN JUAN UT NE NE 10-413-24E INJ OP 43-037-05592 14-20-	NUMBER         NUMBER         NUMBER           -603-242         94-004216           -603-243         94-004216           -603-243         94-004216           -603-243         94-004216           -603-243         96-004190           -603-6148         96-004190           -603-6509         96-004190           -603-6508         96-004190           -603-6510         96-004190
9-44 SAN JUAN UT SE SE 9-41S-23E INJ SI 43-037-16451-14-20- 16-24 SAN JUAN UT SE SU 16-41S-23E INJ SI 43-037-16454-14-20- 16-44 SAN JUAN UT SE SE 16-41S-23E INJ SI 43-037-16453-14-20-	603-242 94-004216 603-243 94-004216 603-243 94-004216 0603-6148 96-004190 0603-6140 96-004190 603-6509 96-004190 603-6510 96-004190
16-24 SAN JUAN UT SE SU 16-41S-23E INJ SI 43-037-16454 14-20- 16-44 SAN JUAN UT SE SE 16-41S-23E INJ SI 43-037-16453 14-20-	603-243       94-004216         603-243       94-004216         0603-6148       96-004190         0603-6140       96-004190         603-6509       96-004190         603-6508       96-004190         603-6510       96-004190
16-44 SAN JUAN UT SE SE 16-413-23E INJ SI 43-037-16453 14-20-	-603-243       94-604216         0603-6148       96-604190         0603-6140       96-004190         -603-6509       96-004190         -603-6508       96-004190         -603-6510       96-004190
Va Five operations and the second sec	0603-6148       96-004190         0603-6140       96-004190         603-6509       96-004190         603-6508       96-004190         603-6510       96-004190
MC ELMO CREEK A17-1 SAN JUAN UT NE NE 10-415-24E INJ OP 43-037-05592 14-20-	0603-6140       96-004190         603-6509       96-004190         603-6508       96-004190         603-6510       96-004190
	603-6509 96-004190 603-6508 96-004190 603-6510 96-004190
A17-2 SAN JUAN UT NE NE 10-418-24E INJ SI 43-037-05592 14-20-	603-6508 96-004190 603-6510 96-004190
B-13 SAN JUAN OUT NW NW 2-41S-24E INJ OP 43-037-05701 14-20-	603-6510 96-094190
B-15 SAN JUAN UT NW SW 02-41S-24E INJ OP 43-037-05657 14-20-	
D-13 SAN JUAN UT NW NE 2-418-24E INJ OP 43-037-16267 14-20-	0603-6147 94-004190
D-15 SAN JUAN UT NW SE 2-415-24E INJ OP 43-037-05656 14-20-	VVVT1/V
D-17 SAN JUAN UT NW NE 11-418-24E INJ OP 43-037-15704 14-20-	603-5447 96-004190
E-19 SAN JUAN UT NE SE 11-41S-24E INJ OP 43-037-16342 14-20-	603-5449 96-004190
E-21 SAN JUAN UT NE NE 14-415-24E INJ OP 43-037-16343 14-20-	693-379 96-004190
E-23 SAN JUAN UT NE SE 14-413-24E INJ OP 43-037-16344 14-20-	603-370 96-094190
F-11 SAN JUAN UT NW SW 36-405-24E INJ OP 43-037-05743 14-20-	0603-6146 96-004190
F-13 SAN JUAN UT NW NW 01-415-24E INJ OF 43-037-16345 14-20-	603-4032 96-004190
F-15A SAN JUAN UT HW SW 1-41S-24E INJ OP 43-037-31149 14-20-	693-4032 96-004190
F-17 SAN JUAN UT NW NW 12-415-24E INJ OP 43-037-15493 14-26-	603-4039 96-004190
F15A SAN JUAN UT NW SW 01-415-24E INJ OP 43-637-31149 14-20-	603-4032 96-004190
G-18 SAN JUAN UT SE NW 12-41S-24E INJ OP 43-037-15494-14-20-	603-4039 96-004190
G-19 SAN JUAN UT NE SW 12-415-24E INJ OP 43-037-05532 14-20-	603-5450 96-004190
G-21 SAN JUAN UT NE NW 13-415-24E INJ SI 43-637-16347 14-20-	603-370 96-004190
G-21A SAN JUAN UT NE NW 13-415-24E INJ 8P 43-037-30974 14-20-	603-370 96-004190
G-23 SAN JUAN UT NE SW 13-415-24E INJ OP 43-037-16348 14-20-	603-370 96-004190
G-25 SAN JUAN UT HE NW 24-415-24E INJ OP 43-037-16349 14-20-	603-370 96-004190
H-11 SAN JUAN UT NW SE 36-405-24E INJ OP 43-037-05739 14-20-	-0603-6145 96-604190
H-13 SAN JUAN UT N4 HE 01-415-24E INJ OP 43-037-05708 (4-20-	603-4032 96-004190
H-15 SAN JUAN UT NW SE 01-415-24E INJ OP 43-037-05666 14-20-	603-4039 96-004190
H-17 SAN JUAN UT NA-HE 12-415-24E INJ OP 43-037-05605 14-20-	603-4039 96-004190
I-20 SAN JUAN UT SE SE 12-415-24E INJ OF 43-637-65524 14-26-	503-4495 96-004190

#### UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR:	MEF					
FIELD: Great		Aneth	- 1	LEASE:	McElmo Creel	<u> </u>
WELL # B-	13	(Nava)	C-2		TOWNSHIP 4/5 RANGE	24E
STATE FED. F		TH 556		e well <u>J</u> v	JW MAX. INJ. PRESS	2800
TEST DATE	9/10/8	001	wa	ter Tracer :	Eurosy Pun 3/2/86	s 400°
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURI
SURFACE	133/8	, ——	100 <sub>SX</sub>		51-due +0 # 6	
INTERMEDIATE	85/8		600 sx		injection trunks	
PRODUCTION	51/2"	5568	300 5 X		line Shut-down	· · ·
TUBING	27/8"	· · · · · · · · · · · · · · · · · · ·		<del></del>		
5"," Bake				, ,		
CASING STRING		SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURI
SURFACE	133/8			-50 -		
INTERMEDIATE	85/8	<del></del>		<u></u>		
PRODUCTION	51/z		<del></del>	- 4#-	:	
TUBING	27/8			2100		
CASING STRING SURFACE	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTUR
INTERMEDIATE		-				
PRODUCTION				·		<del></del>
						<del></del>
TUBING		-				
		<del></del>	<del></del>			

NWNN Sec. 2, T41S, R24E 820' FNL & 820' FWL San Juan County, Utah

FIELD:

McELMO CREEK

KB: 4478'

DF: 4477'

GL: 44681

TD: 5568'

PBTD: 5541'

TLD: 10.0' TOC: 4302'

SPUDDED:

12-13-61

COMPLETED:

PAY ZONE:

Injection well, DESERT CREEK ZONES 1 & 2 Commingled.

PERFS:

Zone 1 - 5368-83'

Zone 2 - 1 jet at 5461', 5471', 5185', 5498', 5507', 5517', 5529'

CASING:

13-3/8" OD, 48#, H-40, R-2, ST&C set at 95' w/ 100 sx cmt. 8-5/8" OD, 24#, J-55, R-2, ST&C set at 1385' w/ 600 sx cmt. 5-1/2" OD, 14#, J-55, R-2, ST&C set at 5558' w/ 300 sx cmt.

TUBING:

2-7/8" OD, EUE, 6.5#, J-55, cement lined thg.

PACKERS:

5-1/2" Baker Lok-set packer at 5315'.

PUMP'G EQUIP:

None

REMARKS:

Converted to water injection well 5-10-62.

Bridge plug at 5532'.

5-19-62

Acidized w/ 2500 gal. reg. 15% acid by Dowell. Job completed

w/ well on vacuum. Placed well on injection.

10-26-65

Dowell treated perfs 5368-83' w/ 6000 gal 28% iron acid. Final press 4300 PSI. After 3 min "0" PSI. Placed well

back on injection.

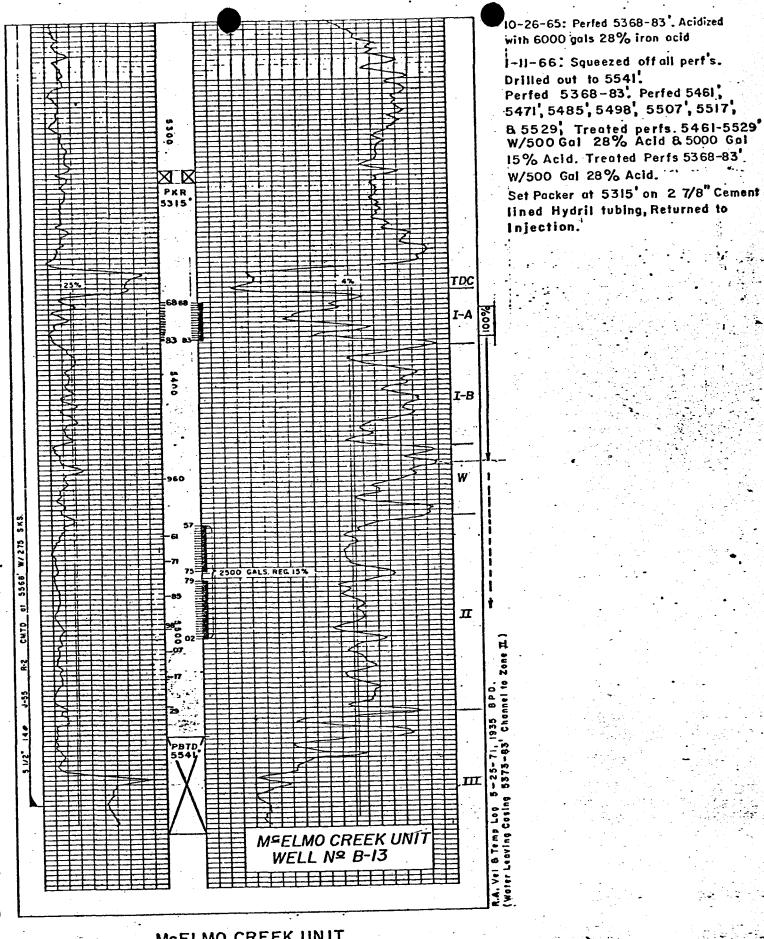
12-14-18-65

Sqz'd w/ 500 sx 0.6 Halad 9 just below pkr at 5243'. Drilled out 135'. Dropped down and drilled out to 5541'. Perf'd 5368-63' w/ 30 holes and 5461', 5471', 5485', 5498', 5507', 5517', 5529' w/ 1 jet per ft. Acidized perfs 5461', 5529' w/ 5000 gals 15%

acid, acidized perfs 5368-83' w/ 5000 gal 28% acid.

### McELMO CREEK UNIT #B-13

DATE	May 7, 1962
OIL BBL	/DAY Completed as an injection well no initial
	production data
OIL GRA	VITY
GAS CU.	FT/DAY
GAS-OIL	RATIO CU/FT/BBL
WATER B	BL/DAY
DUMP THO	/FLOUTNO
PUMP I NG	/FLOWING
CHUKE S	IZE
OHORE 3	
FION TH	RING PRESSURE



Well No.- B-I

#### ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

- (a) Well Data Sheets.
- (b) (1) Plat #1.
  - (2) Well Data Sheets.
  - (3) Well Data Sheets & Logs.
  - (4)
- i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.
- ii. Maximum Surface Pressure: 2800 psig. Maximum Rate: 4000 BWPD.

FORMATION	DEPTH	LITHOLOGY
Chinle DeChelly Organ Rock Hermosa Upper Ismay Lower Ismay Gothic Desert Creek	1300' avg. 2350' avg. 2600' avg. 4400' avg. 5300' avg. 5370' avg. 5450' avg. 5460' avg.	Shale Sandstone Shale Limestone Limestone Limestone Shale Limestone
Chimney Rock	5550' avg.	Shale

- (5)
- (i) A throttling valve is installed on the wellhead to control injection rates and pressures.
- (ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.
- (iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5 Ca: 13770 ppm S04: 25 ppm CL: 16700 ppm Mg: 11421 ppm H2S: 30 ppm

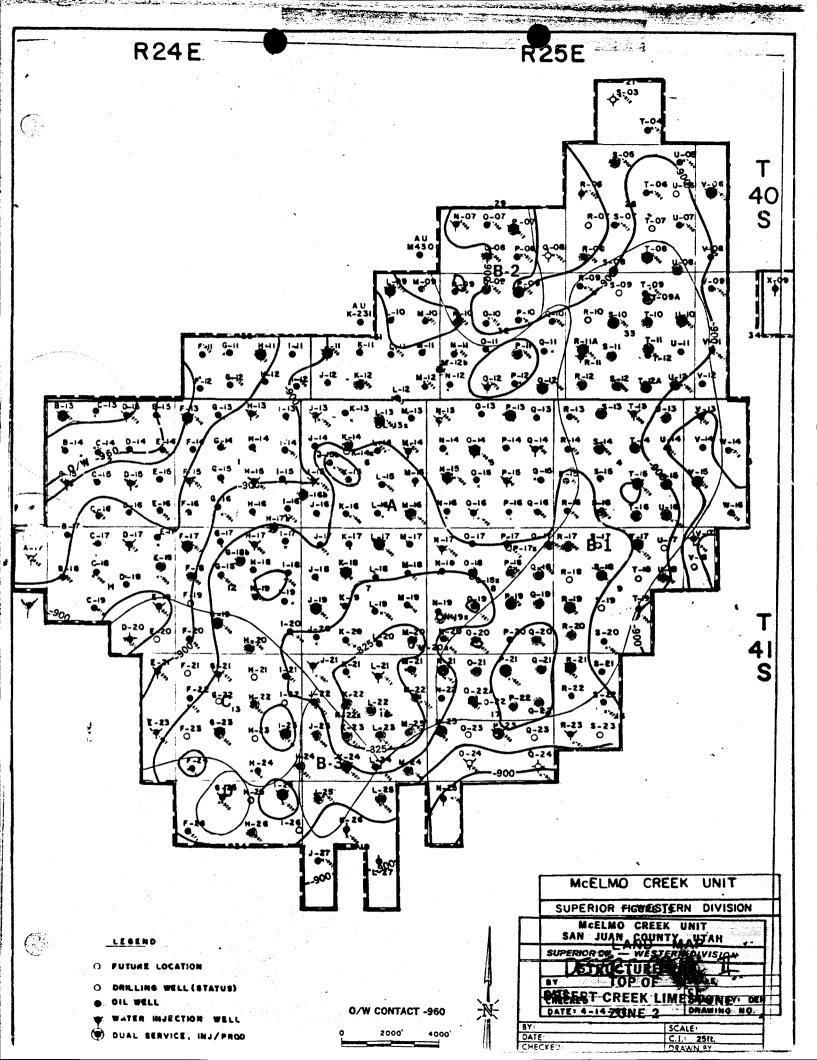
Gravity: 1.0553

- (5) Cont.
  - (iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.
  - (v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.
  - (vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6 Ca: 17410 ppm SO4: 33 ppm CL: 34800 ppm Mg: 11518 ppm H2S: 10 ppm Fe: 1.5 ppm HCO3: 48.8 ppm Ba: - Specific

Gravity: 1.0902

- (6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.
- (7) N/A.
- (8) The Division will be notified of the date and time to monitor the mechanical integrity test.
- (9) N/A.
- (10) N/A.



# CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: /www We	11 No. M. Tow heep Chut
County: San Juan T 415 R 24E	Sec. 2 API # 43-037-16339
New Well Conversion Disposal Wel	.1 Enhanced Recovery Well X
	YES NO
UID Forms Completed	
Plat including Surface Owners, lead wells of available record	eseholders,
Schematic Diagram	
Fracture Information	
Pressure and Rate Control	
Adequate Geologic Information	
Fluid Source	Desert auk - many
Analysis of Injection Fluid	Yes No TDS 60,000
Analysis of Water in Formation to be injected into	Yes Noi TDS 70 coot
	Winguto Depth 1300
Number of wells in area of review	Prod. P&A
	Water Inj
Aquifer Exemption	Yes NA
. Mechanical Integrity Test	Yes No
	Date 10-24-84 Type Walnitaria Fog
Comments:	

Reviewed by:

Form 3160-5 (June 1990)

#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5. Lease Designation and Serial No. 14-20-603-6509

6. If Indian, Allottee or Tribe Name

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals

**NAVAJO TRIBAL** 

SUBMIT	7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT		
1. Type of Well    Gas   Well   Well   X Other   INJECTION   2. Name of Operator   MOBIL OIL CORPORATION   3. Address and Telephone No.  P O BOX 633   MIDLAND, TX 70702   4. Location of Well (Footage Sec. T. P. M. or Support	(918) 688–2585	8. Well Name and No. B-13 9. API Well No. 43-037-16339 10. Field and Pool, or Exploratory Area GREATER ANETH	
<ol> <li>Location of Well (Footage, Sec., T., R., M., or Survey I 820 FNL, 820 FWL SEC 2, T41S, R2</li> </ol>	11. County or Parish, State SAN JUAN, UTAH		
2. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION	ı	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing SI STATUS  all pertinent details, and give pertinent dates, including estimated date of starting casting and give pertinent dates, including estimated date of starting casting and give pertinent dates, including estimated date of starting casting ca	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

MOBIL REQUEST SHUT-IN STATUS FOR REFERENCED WELL. WELL IS UNECONOMICAL TO PRODUCE AT THIS TIME.

Accepted by the State of Utah Division of Oil, Gas and Mining

Federal Approval of this Action is Necessary

LUG C 2 1393

**DIVISION OF** CIL GAS & MINING

4. I hereby certify that the foregoing is true and correct Signed Shirley Godd SHIRLEY TODD	Title ENV. & REG. TECHNICIAN	Date 7-28-93
(This space for Federal or State office use)  Approved by Conditions of approval, if any:	Title	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statem or representations as to any matter within its jurisdiction.

Form 3160-5 (June 1990)

Subsequent Report

Final Abandonment Notice

#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Larry Designation and Coriel No.

14-20-603-6509	
----------------	--

Non-Routine Fracturing

Conversion to Injection

Water Shut-Off

Dispose Water

Do not use this form for proposals to dr	III or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name  NAVAJO TRIBAL
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT
1. Type of Well  Oil Well Well Sas Well Other INJECTION W  2. Name of Operator	/ELL	8. Well Name and No. <b>B-13</b>
MOBIL EXPLORATION & PRODUCING U.S.  3. Address and Telephone No. P O BOX 633 MIDLAND, TX 79702  4. Location of Well (Footage, Sec., T., R., M., or Survey D 820 FNL, 820 FWL SEC. 2, T41S, R.	(915) 688–2585	9. API Well No. 43-037-16339 10. Field and Pool, or Exploratory Area GREATER ANETH 11. County or Parish, State SAN JUAN, UTAH
2. CHECK APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
X Notice of Intent	Abandonment Recompletion	Change of Plans New Construction

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHMENTS

Recompletion

Plugging Back

Casing Repair

Altering Casing

SEP 2 2 1993

**DIVISION OF** OIL, GAS & MINIM

9/24/93 TAN atthews

14. I hereby certify that the foregoing is true and correct		
Signed Shuley Sodd SHIRLEY TODD	Title ENV. & REG. TECHNICIAN	Date 9-16-93
(This space for Federal or State office use)		
Approved by	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### McElmo Creek Unit B-13 Uneconomical Well

#### PLUG AND ABANDONMENT FROCEDURE

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

- 1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navajo EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
- MI workover rio. Load well with lease water. If well is not dead use 10 ppg brine. NU and PT BOP's. Release Baker Lok-Set packer at 5315'. Circulate hole to 10 ppg brine if necessary. POH laying down 2-7/8", 6.5 1b/ft cement lined tubing. Install thread protectors while laying down and transport tubing to Mobil's Aneth field pipe yard. RIH with 4-3/4" bit without nozzles, casino scraper for 5-1/2", 14 lb/ft casing and bulldog bailer on 2-7/8" workstring and CO to 5534'. POH. RU wireline unit. RIH with cement retainer on wireline and set at 5108' EL. POH. RD wireline unit. RIH with star-quide stinger and 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring. Sting into cement retainer and pressure test backside to 200 psi and monitor. Establish an injection rate of 1-2 BPM using lease water. Mix and pump 5 bbls fresh water spacer, 116 cu ft of class B 15.6 ppg neat cement, 5 bbls of fresh water spacer. Displace cement to cement retainer using lease water. Do not exceed 2000 psi surface injection pressure. Pull out of cement retainer and reverse out hole to 9 ppo fresh water mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer.
- 3. PU to 4445' and spot 28 cu ft of class B 15.6 ppg neat cement from 4445'-4245'. Pull out of cement plug at less than 30 ft/min. WOC.
- 4. Tao top of cement plug with workstring. Cement top must be above 4295'. Spot additional cement as necessary. POH laying down all but 1455' of 2-7/8" workstring.
- 5. RIH with Servco K-mill or equivalent for 5-1/2", 14 lb/ft casing and drill collars as necessary on 2-7/8" workstring. Cut casing at 1455' and mill 1 ft to confirm cut. POH laying down all but 955' of workstring. Spear and recover 5-1/2", 14 lb/ft casing. If 5-1/2" casing string was recovered Go To Step No. 7.

- 6. If 5-1/2" casing string is cut but cannot be recovered. RIH with cement retainer on 500′ of 2-3/8" CS Hvdril tubing and 2-7/8" workstring and set at 1405′. PT backside to 200 osi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 572 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 500′ of 2-3/8" CS Hvdril tailpipe on 2-7/8" workstring to top of cement retainer at 1405′. Fill hole with class B 15.6 ppg neat cement in 400′ stages, laying down workstring while POH. Calculated volume required to fill hole is 193 cu ft. Go To Step No. 8.
- 7. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to 1455'. Fill hole from 1455' to surface with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 519 cu ft.
- 8. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spagetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded to the top of the plate:

Mobil E&P U.S.. Inc. McElmo Creek Unit #B-13 Navajo Tribal Lease 14-20-0603-6509 820' FNL. 820' FWL Sec. 2 - T41S - R24E San Juan Co.. Utah

9. RDMO workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

Mobil Operations Engineer: Sean S. Murphy
Office Phone: 303/565-2208
Home Phone: 303/564-9423

# McElmo Creek Unit # B-13

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LEASE 14-20-0603						-	lurph	
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GL 4468'	₹\$\$\$				2-3/"	110# L	1-40 at	(22)
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Hole Size: 7-76"				• •				
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		TD 5	<i>56</i> 8`_					

## ENGINEERS CALCULATION SHOT

## McElmo Creek Unit # B-13

	I'MO CPECK UNI	<u> </u>
- API # 43-037-163	339	JOB OR AUTH. NO.
LOCATION 820' FNL, 820' FWL SE	<u>2.2-T4/5-R</u> 24E	PAGE
SUBJECT Plug and Abar		DATE 8/Sept/93
LEASE 14-20-0603-65		BY S. S. Murphy
	PROPOSED	
KB 4478'		
64 4468		
<b>≋</b> E		13-36", 48# H-40 at 102'
		w/100 sxs cut to surface
	7	Class B coment
<u> </u>		
		Plug 0 - 1455'
Top of Ch: 10 =+ 1355"	F 6	7-5/6", 24# J-55 at 1400'
Top of Chink at 1355		mtid w/700 sxs to surface
:		27.0.00 383 10.0001300
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		recovered at 14.33
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		Class B cement plug.
Top of Hermosa at 4345		Class B cement plug 4245'-4445' (200)
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9 PPG Mud-		Int. Retainer at 5108'
Top of Table of 5208		and the state of t
Top of Ismay at 5208	~===	class R come + alua
		Class B cement plug 5108'- 5529'
<u> </u>		PERFS (SQZD)
	~	I ENTS ( SYEV)
		2 SPF
·		368-5383', 5461', 5471', 5485'.
	5	498', 5507', 5517', 5529' ISPF
Hole Size: 7-1/8"		
· <u>· · · · · · · · · · · · · · · · · · </u>	3-5-	14# J-55 Csg at
	550	58' cm + 18 m/ 275 sxs
	TD 5568	•
	1. V 3360	

#### McElmc Creek Unit 8-13 43-037-16339 Uneconomical Well REVISED

Sec 2 415 24E

#### PLUG AND ABANDOMMENT PROCEDURE

MOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

- 1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navaio EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
- MI workover rid. Load well with lease water. If well is not dead use 10 ppo brine. NU and PT BOP's. Release Baker Lok-Set packer at 5315 . Circulate hole to 10 ppg brine if necessary. POH laving down 2-7/8". 6.5 1b/ft cement lined tubing. Install thread protectors while laving down and transport tubing to Mobil's Aneth field pipe yard. RIH with 4-3/4" bit without nozzles. casino scraper for 5-1/2". 14 lb/ft casing and bulldog bailer on 2-7/8" workstring and CO to 5280' (Optional cleanout trip). POH. RU wireline unit. RIH with CIBP on wireline and set at 5268' EL. RD wireline. RIH with 2-7/8" workstring (2-3/8" CSH tailpipe optional) and tag top of CIBP. Spot 23 cu ft (165') of class 8 15.6 ppg neat cement on top of CIBP. Pull out of cement and reverse out hole to 9 ppg <u>fresh water</u> mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer. NOTE: If well is taking fluid after setting CIBP, cement plug will need to be tagged.
- PU to 4445' and spot 28 cu ft of class B 15.5 ppo heat cement from 4445'-4245'. Pull out of cement plug at less than 30 ft/min. WOC.
- Tad top of cement plug with workstring. Cement top must be above 4295 . Spot additional cement as necessary. PCH laying down all but 1455' of 2-7/8" workstring.
- 5. RU wireline: RIH with 4" perforating oun loaded with deep penetrating charges at 4 SPF and perforate 1451'-1455'. POH.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 10-14-93

OCT 0 4 1993

DIVISION OF OIL, GAS & MINING

- All with cement retainer on 2-7/8" workstring and set at 1405 (Wireline set cement retainer optional). PT backside to 200 ost and monitor. Establish injection rate of 1-2 BPM using 5 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 572 cu ft of class B 15.6 opg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Full out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 2-7/8" workstring (2-3/8" CSH tailpipe optional) to top of cement retainer at 1405'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 193 cu ft.
- 7. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spagetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded or stamped on the top of the plate:

Mobil E&P U.S., Inc.
McElmo Creek Unit #B-13
Navajo Tribal Lease
14-20-0603-6509
320' FNL: 820' FWL
Sec: 2 - T41S - R24E
San Juan Co.. Utah

3. RDMO workover rio. Haul off salvaged equipment and clean location.
Notify Shirley Todd with Mobil at 918/688-2585 when work is
completed so that a Sundry Notice (Subsequent Report of
Abandonment. Form 3160-5) can be filed with the Bureau of Land
Management.

Mobil Operations Engineer: Sean S. Murphy

Office Phone: 303/545-2208 Home Phone: 303/544-9423

### ENGINEERS CALCULATION

# McElmo Creek Unit # B-13

- API # 43-037-16339		_		JOB OR	AUTH. NO.	
LOCATION 820' FNL, 820' FWL Sec. 2-	T415	-RZL	ł E		PAGE	
SUBJECT Plug and Abandon				DATE	8/Sept/93	
LEASE 14-20-0603-6509		_			5. S. Murphy	,
	<del></del>					
	XIST	ING				:
KB 4478'	-			:		
GL 4468'			===	:		<u> </u>
				13-36	48# H-40 at	/oz'
					s cut to surface	
<b>=</b>				11/100 22.	<u> </u>	<del></del>
n	11				<u>:</u>	
	++	_				
	++			= (1)		
Top of Chink at 1355'	$\dashv$	_	<u>= 8-</u> ,	% , 24.	# J-55 at 1400	, 1
	.				Osxs to surface	
	TK	<u>'                                    </u>	<u> </u>	78 6.3	# J-55 EUE 8.	1
				+ lined	tubing	
	4					
					the state of the same of the s	. <u></u>
			T0	c at	39.81 (Calci)	)
Top of Hermosa at 4345						
10p 51 110 mosa at 1515						
						·
Top of Ismay at 5208'		-F		<del>-</del>		
				<del></del>		
Baken Lok-Set PKr at 5315"			· · · · · · · · · · · · · · · · · · ·			
				PE	RFS	
		-				
=	=	=	52/	2 SPF	, 5461', 5471',	
<del></del>		<b>—</b>	<u> </u>	<u>0                                    </u>	3471 - 3471 J	2 7 8 5
		丰	544	8,550	7', 5517', 5529'	1 SPF
Hole Size: 7-76"				····		
		=	5-/2	, 14#	J-55 Csg at	
PBT	D 55	4/1	5568°	contid	u/ 275 sxs	
TD	556	:R'			•	

### ENGINEERS CALCULATION EET

## McElmo Creek Unit # B-13

McElmo Creek Uni	# # B-13
- API # 43-037-16339	JOB OR AUTH. NO.
LOCATION 820' FNL, 820' FWL Sec. 2- T415-R24E	PAGE
SUBJECT Plug and Abandon	DATE 8/5ept/93
LEASE 14-20-0603-6509	er S. S. Murphy
KB 4478'	
GL 4468'	
The same of the sa	13-36" 48# H-40 a+ 102'
Cont Retainer	w/100 sxs cut to surface
at 1405'	Class B cement
	Plug 0 - 1455'
Top of Chink at 1355'	-5/" 24# J-55 at 1400'
	+'d w/700 sxs to surface
5020 m/572 conft ant	- 1. C. 3-7
9 PPG Mud	
	c at 3981' (Calc.)
70c4245 —	
	Class B cement plug
	4245'-4445'(200)
9 PPG Mud	
Top of Ismay at 5208	
	0577
CIBP at 5268'	PERFS
ul 165' cont on top	2 50 =
- Alleria Plants	68-5383, 5461, 5471, 5485;
H / 5 / 1   5 4 / 1	98', 5507', 5517', 5529'   SPF
Hole Size: 7-76"	14# J-55 Csg at
TD 5568'	1 cm +18 m/ 275 sxs
1.6 2360	

Form 3160-5 (June 1990)

Approved by \_\_\_\_\_\_\_ Conditions of approval, if any:

# **UNITED STATES**

DEPARTMENT OF	THE INTERIOR
BUREAU OF LAND	MANAGEMENT

PORM APPROVED		
Budget Bureau No. 1004-0135		
Expires: March 31, 1993		
Lease Designation and Serial No.		

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals  SUBMIT IN TRIPLICATE  1. Type of Well  Oil Gas Well Well X Other INJECTION WELL  2. Name of Operator MOBIL OIL CORPORATION  3. Address and Telephone No. P O BOX 633 MIDLAND, TX 79702 (915) 688–2585  4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 820° FNL. 820 FWL SEC. 2. T41S. R25ENWNW	NAVAJO TRIBAL  7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT  Well Name and No. B-13  API Well No. 43-037-16339  0. Field and Pool, or Exploratory Area GREATER ANETH  1. County or Parish, State  SAN JUAN, UTAH  OR OTHER DATA
SUBMIT IN TRIPLICATE  1. Type of Well Oil Gas Nother INJECTION WELL  2. Name of Operator MOBIL OIL CORPORATION  3. Address and Telephone No. P O BOX 633 MIDLAND, TX 79702 (915) 688-2585  4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 820° FNL, 820 FWL SEC. 2, T41S, R25ENWNW 24 6  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	MCELMO CREEK UNIT  Well Name and No. B-13  API Well No. 43-037-16339  0. Field and Pool, or Exploratory Area GREATER ANETH  1. County or Parish, State  SAN JUAN, UTAH
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	B-13  API Well No. 43-037-16339  D. Field and Pool, or Exploratory Area GREATER ANETH  County or Parish, State  SAN JUAN, UTAH
MOBIL OIL CORPORATION  3. Address and Telephone No. P O BOX 633 MIDLAND, TX 79702 (915) 688-2585  4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 8203 FNL, 820 FWL SEC. 2, T41S, R25ENWNW 246  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	43-037-16339  0. Field and Pool, or Exploratory Area GREATER ANETH  1. County or Parish, State  SAN JUAN, UTAH
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585  4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 820' FNL, 820 FWL SEC. 2, T41S, R25ENWNW 24 E  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	O. Field and Pool, or Exploratory Area GREATER ANETH  1. County or Parish, State  SAN JUAN, UTAH
24 E  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	1. County or Parish, State SAN JUAN, UTAH
· ·	, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
Abandonment   Abandonment   Recompletion   Plugging Back   Casing Repair   Altering Casing   Other Plug & AbandonMENT	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recognition Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting an give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* 11-04-93 NOTIFIED JIM WALKER/NAVAJO EPA AND JIMMY MORRIS/BLM OF INTENT TO P & A 11-07-93 ON LOCATION KEVIN SCHNIEDER/BLM, GARY YELLOWHAIR AND JIM WALKER/NAVAJO300' 11-08-93 ON LOCATION KEVIN SCHNIEDER/BLM AND JIM WALKER/NAVAJO EPA. TAG CIBP A OK. SPOT 23 CU/FT 165' CL B CMT(1.18 YIELD 15.6 LB) CIRC HOLE TO 9 LB FR WTR MUD SAME CMT 4445-4245. PERF 5.5 CSG W/4 JSF 1451-1455. SET CMT RET. AT 1400'. CIR 5.5 CSG. TOTAL OF 329 SX CL B. CMT INSIDE OF CSG IN 400' STAGES TO SURF. 165 SX INSIWELLHEAD. RDMO	. NU BOP. IO EPA. MIRU. SET CIBP AT T 5300'. PEST CSG 500 LB/ . SPOT 28 CU/FT PLUG C AND CMT TO SURF AROUND
	DEC 0 6 1993
	enviorar of Il, Gas & Mining
14. I hereby certify that the foregoing is true and correct  Signed Shuley Todd SHIRLEY TODD Title ENV.& REG. TECHNICIAN  (This space for Federal or State office use)	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.